



**STRONG PARTNERS.
TOUGH TRUCKS.™**

FORTENS™



DIESEL AND LPG FORKLIFT TRUCKS

H8.0-9.0FT FORTENS ADVANCE / FORTENS ADVANCE+

8 000–9 000 KG



FORTENS ADVANCE & FORTENS ADVANCE+ H8.0FT, H9.0FT

DISTINGUISHING MARK	1.1	Manufacturer (abbreviation)	
	1.2	Manufacturer's type designation	
		Model	
		Engine / transmission	
		Brake type	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	
	1.5	Rated capacity/rated load	Q (t)
	1.6	Load centre distance	c (mm)
1.8	Load distance, centre of drive axle to fork	x (mm)	
1.9	Wheelbase	y (mm)	

WEIGHTS	2.1	Service weight ▲	kg
	2.2	Axle loading laden, front/rear	kg
	2.3	Axle loading unladen, front/rear	kg

TYRES/CHASSIS	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Number of wheels, front/rear (x = driven)	
	3.6	Tread, front	b ₁₀ (mm)
	3.7	Tread, rear	b ₁₁ (mm)

DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	α / β (°)
	4.2	Height of mast, lowered	h ₁ (mm)
	4.3	Free lift, ¶	h ₂ (mm)
	4.4	Lift ¶	h ₃ (mm)
	4.5	Height of mast, extended +	h ₄ (mm)
	4.7	Height of overhead guard (cabin) ■	h ₆ (mm)
	4.8	Seat height/stand height ○	h ₇ (mm)
	4.12	Coupling height	h ₁₀ (mm)
	4.19	Overall length	l ₁ (mm)
	4.20	Length to face of forks	l ₂ (mm)
	4.21	Overall width ↕	b ₁ /b ₂ (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.23	Fork carriage to DIN 15173. Class, A/B	
	4.24	Fork carriage width ●	b ₃ (mm)
	4.31	Ground clearance, laden, below mast	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
	4.34.1	Aisle width with pallets 1 000 long x 1 200 wide ◆	A ₁ (mm)
	4.34.2	Aisle width with pallets 800 wide x 1 200 long ◆	A ₂ (mm)
	4.35	Turning radius	W ₁ (mm)
	4.36	Internal turning radius	b ₁₃ (mm)
4.41	90° intersecting aisle (With pallet W = 1200mm, L = 1000mm)		
4.42	Step Height (from ground to running board)	mm	
4.43	Step Height (between intermediate steps between running board and floor)	mm	

PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h
	5.1.1	Travel speed, laden/unladen, backwards	km/h
	5.2	Lift speed, laden/unladen (ZLFL)	m/sec
	5.3	Lowering speed, laden/unladen (ZLFL)	m/sec
	5.5	Drawbar pull, laden/unladen @ 1.6 km/h	kN
	5.7	Gradeability, laden/unladen @ 1.6 km/h †	%

7.5	Fuel consumption according to VDI cycle ^	l/h or kg/h
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ADDITIONAL DATA	10.1	Working pressure for attachments	bar
	10.2	Oil volume for attachments ↕	l/min
	10.3	Hydraulic oil tank, capacity	litres
	10.4	Fuel tank, capacity	litres
	10.4.1	DEF tank, capacity	litres
	10.7	Sound pressure level at the driver's seat (without / with cab) L _{pAZ} ◇	dB(A)
	10.7.2	Sound power level during the drive cycle L _{WAZ} ◇	dB
	10.7.1	Guaranteed sound power 2000/14/EC L _{WAZ}	dB
10.8	Towing coupling, type DIN		

HYSTER		HYSTER		HYSTER		HYSTER	
H8.0FT6		H8.0FT6		H8.0FT6		H8.0FT9	
FORTENS™ Advance / FORTENS™ Advance+		FORTENS™ Advance / FORTENS™ Advance+		FORTENS™ Advance / FORTENS™ Advance+		FORTENS™ Advance / FORTENS™ Advance+	
Kubota 3.8L 55kW E4, Stage IIIB, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		Kubota 3.8L 55kW E4, Stage IV, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		GM 5.7L V8, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		Kubota 3.8L 55kW E4, Stage IIIB, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed	
Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes	
Diesel		Diesel		LPG		Diesel	
Seated		Seated		Seated		Seated	
8.0		8.0		8.0		9.0	
600		600		600		900	
613.5		613.5		613.5		613.5	
2 450		2 450		2 450		2 450	

11487		11487		11487		12417	
17452	5489	17452	5489	17452	5489	18470	5365
2035	5998	2035	5998	2035	5998	1947	7052

L		L		L		L	
8.25x15 14PR ¹		8.25x15 14PR ¹		8.25x15 14PR ¹		8.25x15 14PR ¹	
8.25x15 14PR ¹		8.25x15 14PR ¹		8.25x15 14PR ¹		8.25x15 14PR ¹	
4X	2 ¹	4X	2 ¹	4X	2 ¹	4X	2 ¹
2003		2003		2003		2003	
1 535		1 535		1 535		1 535	

5		9 ²		5		9 ²		5		9 ²	
2712		2712		2712		2712		2712		2712	
105		105		105		105		105		105	
3065		3065		3065		3065		3065		3065	
4239		4239		4239		4239		4239		4239	
2531		2531		2531		2531		2531		2531	
1558		1558		1558		1558		1558		1558	
474		474		474		474		474		474	
5097		5097		5097		5097		5238		5238	
3897		3897		3897		3897		4038		4038	
2239		2239		2239		2239		2239		2239	
65	200	1200	65	200	1200	65	200	1200	65	200	1200
IV A			IV A			IV A			IV A		
2 030 ³			2 030 ³			2 030 ³			2 030 ³		
173			173			173			173		
253			253			253			253		
5487			5487			5487			5608		
5687			5687			5687			5808		
3673			3673			3673			3794		
362			362			362			362		
3046			3046			3046			3116		
321			321			321			321		
256			256			256			256		

19.2	20.3	21.5	22.5	21.5	22.5	19.0	20.3
17.2	18.0	19.1	19.8	19.1	19.8	17.2	18.0
0.34	0.34	0.45	0.45	0.45	0.45	0.32	0.34
0.41	0.37	0.41	0.37	0.41	0.37	0.41	0.37
52836	32297	53379	32297	53379	32297	52570	31568
28	29	28	29	28	29	26	26

9.9	10.6	-	10.4
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155	155	155	155
93	93	93	93
71.7	71.7	71.7	71.7
74.8	74.8	74.8	74.8
-	19	-	-
79	79	79	79
98	101	103	98
102	105	107	102
Pin	Pin	Pin	Pin

Specification data is based on VDI 2198.

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		1.1
H8.0FT9		H8.0FT9		H9.0FT6		H9.0FT6		H9.0FT6		1.2
Fortens Advance / Fortens Advance+		Fortens Advance / Fortens Advance+		Fortens Advance / Fortens Advance+		Fortens Advance / Fortens Advance+		Fortens Advance / Fortens Advance+		
Kubota 3.8L 55kW E4, Stage IV, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		GM 5.7L V8, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		Kubota 3.8L 55kW E4, Stage IIIB, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		Kubota 3.8L 55kW E4, Stage IV, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		GM 5.7L V8, DuraMatch™3, 3-speed / DuraMatch™ Plus3, 3-speed		
Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		Wet Brakes		
Diesel		LPG		Diesel		Diesel		LPG		1.3
Seated		Seated		Seated		Seated		Seated		1.4
9.0		9.0		9.0		9.0		9.0		1.5
900		900		900		900		900		1.6
613.5		613.5		613.5		613.5		613.5		1.8
2 450		2 450		2 450		2 450		2 450		1.9

DISTRIBUTING MARK

12417		12417		11956		11956		11956		2.1
18470	5365	18470	5365	18798	5340	18798	5340	18798	5340	2.2
1947	7052	1947	7052	2158	6616	2158	6616	2158	6616	2.3

WEIGHTS

L		L		L		L		L		3.1
8.25 x 15 -14PR †		8.25 x 15 -14PR †		8.25 x 15 -14PR †		8.25 x 15 -14PR †		8.25 x 15 -14PR		3.2
8.25 x 15 -14PR †		8.25 x 15 -14PR †		8.25 x 15 -14PR †		8.25 x 15 -14PR †		8.25 x 15 -14PR		3.3
4X 2 †		4X 2 †		4X 2 †		4X 2 †		4X 2 †		3.5
2003		2003		2003		2003		2003		3.6
1535		1535		1535		1535		1535		3.7

TYRES/CASSIS

5		9 ²		5		9 ²		5		9 ²		5		9 ²		4.1
2712		2712		2712		2712		2712		2712		2712		2712		4.2
105		105		105		105		105		105		105		105		4.3
3065		3065		3065		3065		3065		3065		3065		3065		4.4
4239		4239		4239		4239		4239		4239		4239		4239		4.5
2531		2531		2531		2531		2531		2531		2531		2531		4.7
1558		1558		1558		1558		1558		1558		1558		1558		4.8
474		474		474		474		474		474		474		474		4.12
5238		5238		5238		5238		5238		5238		5238		5238		4.19
4038		4038		4038		4038		4038		4038		4038		4038		4.20
2239		2239		2239		2239		2239		2239		2239		2239		4.21
65		200		1200		65		200		1200		65		200		4.22
IV A		IV A		IV A		IV A		IV A		IV A		IV A		IV A		4.23
2 030 ³		2 030 ³		2 030 ³		2 030 ³		2 030 ³		2 030 ³		2 030 ³		2 030 ³		4.24
173		173		173		173		173		173		173		173		4.31
253		253		253		253		253		253		253		253		4.32
5608		5608		5608		5608		5608		5608		5608		5608		4.34.1
5808		5808		5808		5808		5808		5808		5808		5808		4.34.2
3794		3794		3794		3794		3794		3794		3794		3794		4.35
362		362		362		362		362		362		362		362		4.36
3116		3116		3116		3116		3116		3116		3116		3116		4.41
321		321		321		321		321		321		321		321		4.42
256		256		256		256		256		256		256		256		4.43

DIMENSIONS

21.4		22.4		21.4		22.4		19.1		20.2		21.4		22.4		21.4		22.4		5.1	
19.0		19.8		19.0		19.8		17.1		17.9		19.0		19.8		19.0		19.8		5.1.1	
0.44		0.45		0.44		0.45		0.27		0.34		0.40		0.45		0.40		0.45		5.2	
0.41		0.37		0.41		0.37		0.41		0.37		0.41		0.37		0.41		0.37		5.3	
53379		31568		53379		31568		52668		31421		53379		31421		53379		31421		5.5	
27		26		27		26		25		27		27		27		27		27		5.5	

PERFORMANCE DATA

11.2		10.4		10.7		11.5		-		7.5	
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155		155		155		155		155		10.1	
93		93		93		93		93		10.2	
71.7		71.7		71.7		71.7		71.7		10.3	
74.8		74.8		74.8		74.8		74.8		10.4	
19		-		-		19		-		10.4.1	
79		79		82		79		79		10.7	
101		103		98		101		103		10.7.2	
105		107		102		105		107		10.7.1	
Pin		Pin		Pin		Pin		Pin		10.8	

ADDITIONAL DATA

NOTE:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster Truck.

- ▲ With standard equipment: mast, carriage, forks, etc.
 - † Top of forks
 - + Without load backrest
 - h6 subject to +/- 5 mm tolerance, 2 549 mm for cab option.
 - Relative to full suspension seat SIP
 - Add 32 mm with load backrest
 - ◆ Stacking aisle width (lines 4.34.1 & 4.34.2) is based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of truck.
 - † Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
 - ∞ Variable
 - ◇ Measured according to the test cycles and based on the weighting values contained in EN12053.
- 1 Other tyre options are available
 - 2 Backtilt limited to 6 degrees with some mast options
 - 3 Carriage is 2 030mm wide, load backrest is 2 080mm wide

EQUIPMENT AND WEIGHT:

Single tyre option requires application survey special quotation to be submitted to sped for approval prior to order.

Weights and axle loadings (lines 2.1, 2.2, 2.3) are based on the following specifications:

- 8.0T-6:** Complete truck with with 5500 mm BOF (5565 mm TOF) 2-stage limited free lift mast, 2030 mm wide standard carriage and 1 200 mm long forks.
- 8.0T-9:** Complete truck with with 4500 mm BOF (4565 mm TOF) 2-stage limited free lift mast, 2030 mm wide standard carriage and 1800 mm long forks.
- 9.0T-6:** Complete truck with with 4500 mm BOF (4565 mm TOF) 2-stage limited free lift mast, 2030 mm wide standard carriage and 1200 mm long forks.

MAST TABLES:

- ❖ Deduct 125 mm without load backrest
- ⦿ Deduct 125 mm with load backrest
- ⊙ No capacity deration when single drive tyres fitted
- ▲ Single Drive Tyres available on H8.0FT6 only
- ✓ If forks longer than 1800mm are required then a hook type standard carriage option will need to be selected and a third party ISS/FP will need to be procured locally.

NOTICE

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that mast tilt in either direction be kept to a minimum when loads are elevated

Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products might be subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CE Safety:
This truck conforms to the current EU requirements.

MAST AND CAPACITY INFORMATION

MASTS H8.0FT6 AND H9.0FT6

	Maximum fork height Top of Forks mm (h _{2+s})	Back tilt	Overall lowered height (mm)	Overall Extended height (mm)	Free lift (top of forks) (mm)
2-Stage Limited Free Lift	3 065	9°	2 712	4 350 ⇄	0
	3 565	9°	2 962	4 850 ⇄	0
	4 565	9°	3 462	5 850 ⇄	0
	5 565	9°	3 962	6 850 ⇄	0
	6 065	9°	4 212	7 350 ⇄	0
3-Stage Full Free Lift	4 615	6°	2 702	6 077 ⇄	1 565 ◀
	5 515	6°	3 002	6 977 ⇄	1 865 ◀
	5 965	6°	3 152	7 427 ⇄	2 015 ◀

MASTS H8.0FT9

	Maximum fork height Top of Forks mm (h _{2+s})	Back tilt	Overall lowered height (mm)	Overall Extended height (mm)	Free lift (top of forks) (mm)
2-Stage Limited Free Lift	3 065	9°	2 712	4 398 ⇄	0
	3 565	9°	2 962	4 898 ⇄	0
	4 565	9°	3 462	5 898 ⇄	0
	5 565	9°	3 962	6 898 ⇄	0
	6 065	9°	4 212	7 398 ⇄	0
3-Stage Full Free Lift	4 615	6°	2 712	6 077 ⇄	1 405 ◀
	5 515	6°	3 012	6 977 ⇄	1 705 ◀
	5 965	6°	3 162	7 475 ⇄	1 855 ◀
	6 565	6°	3 362	8 027 ⇄	2 055 ◀

H8.0FT6-H8.0FT9 – Capacity Chart in kg, Dual Pneumatic Tyres ☉

	With carriage only						
	Maximum fork height mm (h _{2+s})	H8.0FT6 mast ▲		H8.0FT9 mast		H9.0FT mast	
		Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height
2-Stage Limited Free Lift	3 065	8 000		8 000		8 500	
	3 565	8 000		8 000		8 490	
	4 565	8 000		8 000		8 470	
	5 565	8 000		7 920	8 000 kg to 5 265 mm	8 190	9 000kg to 5 315mm
	6 065	7 710	8 000kg to 5 815mm	7 770	8 000 kg to 5 265 mm	7 620	9 000kg to 5 315mm
3-Stage Limited Free Lift	4 615	8 000		8 000		8 500	
	5 515	8 000		7 770	8 000 kg to 4 615 mm	8 320	9 000kg to 5 365mm
	5 965	7 940	8 000kg to 5 915mm	7 650	8 000 kg to 4 615 mm	7 810	9 000kg to 5 365mm

	With carriage + sideshift						
	Maximum fork height mm (h _{2+s})	H8.0FT6 mast ▲		H8.0FT9 mast		H9.0FT mast	
		Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height
2-Stage Limited Free Lift	3 065	7 580		7 580		8 500	
	3 565	7 570		7 560		8 490	
	4 565	7 540		7 530		8 470	
	5 565	7 520		7 420	7 500kg to 5 265mm	8 190	8 450kg to 5 315mm
	6 065	7 240	7 510kg to 5 815mm	7 270	7 480kg to 5 265mm	7 620	8 440kg to 5 315mm
3-Stage Limited Free Lift	4 615	7 560		7 560		8 500	
	5 515	7 540		7 320	7 530kg to 4 615mm	8 320	8 480kg to 5 365mm
	5 965	7 480	7 530kg to 5 915mm	7 180	7 510kg to 4 615mm	7 810	8 470kg to 5 365mm

	With carriage + sideshifting fork positioner ✓						
	Maximum fork height mm (h _{2+s})	H8.0FT6 mast ▲		H8.0FT9 mast		H9.0FT mast	
		Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height	Capacity at max height	Capacity to lift height
2-Stage Limited Free Lift	3 065	7 530		7 550		8 460	
	3 565	7 520		7 530		8 440	
	4 565	7 500		7 500		8 420	
	5 565	7 470		7 390	7 460 kg to 5 265 mm	8 140	8 400kg to 5 315mm
	6 065	7 200	7 460kg to 5 815mm	7 240	7 440 kg to 5 265 mm	7 570	8 390kg to 5 315mm
3-Stage Limited Free Lift	4 615	7 530		7 530		8 470	
	5 515	7 510		7 290	7 500 kg to 4 615 mm	8 290	8 450kg to 5 365mm
	5 965	7 450	7 500kg to 5 915mm	7 150	7 480 kg to 4 615 mm	7 780	8 430kg to 5 365mm

POWERTRAINS

GENERAL	
1.1	Manufacturer (abbreviation)
1.2	Manufacturer's type designation
1.3	Drive: electric (battery or mains), diesel, petrol, LPG

HYSTER	HYSTER	HYSTER
H8.0-9.0FT	H8.0-9.0FT	H8.0-9.0FT
Diesel	Diesel	LPG

COMBUSTION ENGINE		
7.1	Engine manufacturer/type	
7.1.1	EPA / CE Tier compliance	
7.2	Engine power according to ISO1585	kW
7.3	Rated speed at max. power	rpm
7.3.1	Torque at 1/min	Nm/min-1
7.4	Number of cylinders/displacement	(-)/cm ³
7.10	Battery voltage/nominal capacity	(V)/(Ah)

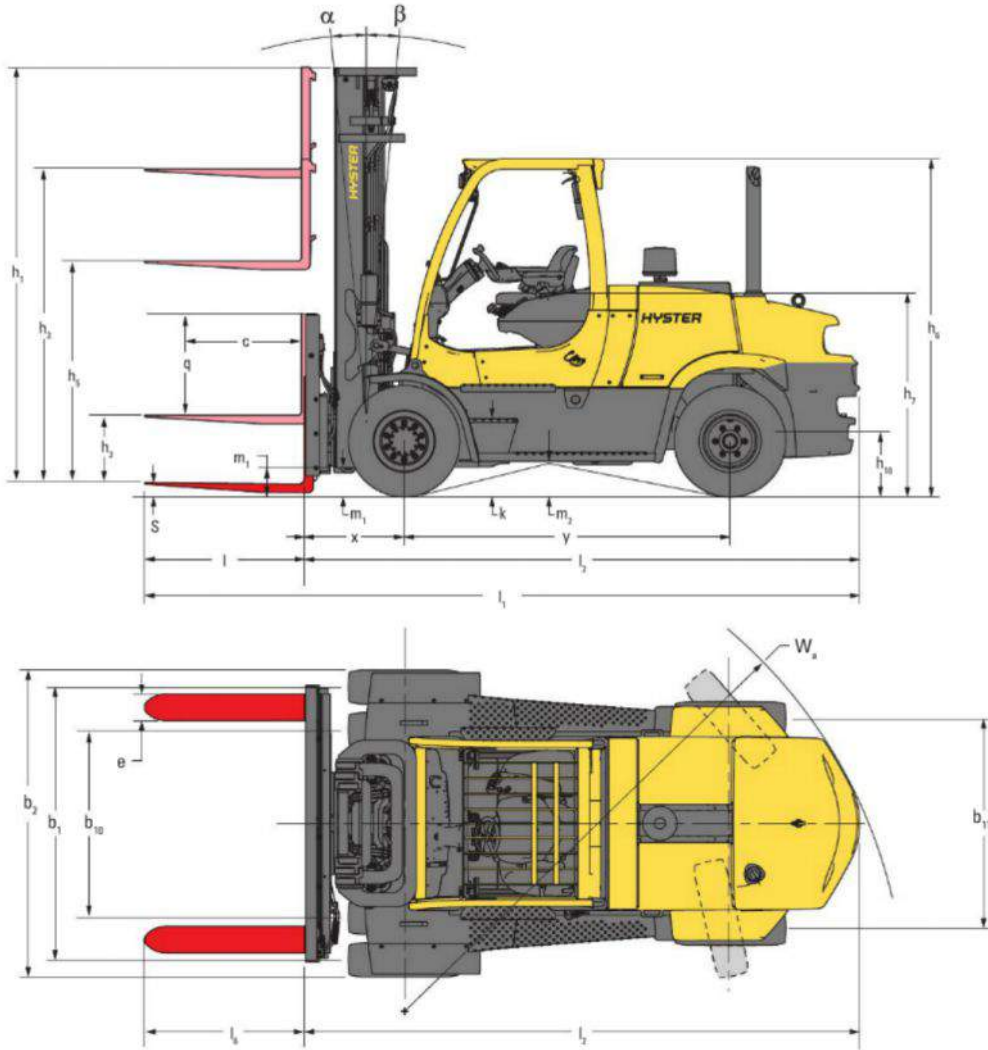
Kubota 3.8L 55kW	Kubota 3.8L 82kW	GM 5.7L V8
Tier 4i / Stage IIIB	Tier 4f / Stage IV	-
55	82	99
2200	2400	2400
308	1400	373
4	3769	4
12	210	12
		1600
		422
		1600
		8
		5735
		12
		132

DRIVE MECHANISM	
8.1	Type of drive unit
8.2	Manufacturer/type
8.6	Wheel drive/drive axle manufacturer/type
8.11	Service brake
8.12	Parking brake

Hydrodynamic	Hydrodynamic	Hydrodynamic
DANA	DANA	DANA
DANA	DANA	DANA
Hydraulic	Hydraulic	Hydraulic
Hand Lever	Hand Lever	Hand Lever

NOTES To calculate truck capacities with alternative truck specifications to the ones shown in the above tables, please consult your Hyster dealer. The rated capacities shown are for masts in a vertical position on trucks equipped with standard or sideshift carriage, and nominal length forks. Masts above the maximum fork heights shown in the mast table are classified as high lift, and depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread. Values shown are for standard equipment. When using non-standard equipment, these values may change. Please contact your Hyster dealer for information.

TRUCK DIMENSIONS

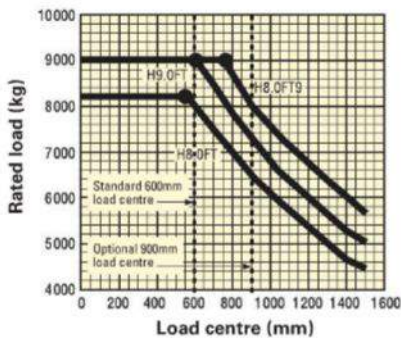


= Centre of gravity of unladen truck

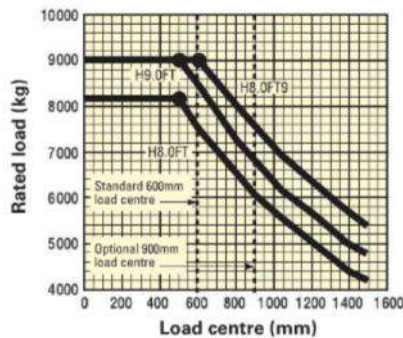
For $b_{12}/2 < b_{13}$: $Ast = W_a + x + l_6 + a$
 For $b_{12}/2 > b_{13}$: $AST = W_a + \sqrt{(l_6 + x)^2 + (b_{12}/2 - b_{13})^2}$
 a = Minimum operating clearance
 (VDI standard = 200 mm BITA recommendation = 300 mm)
 l_6 = Load length

RATED CAPACITIES

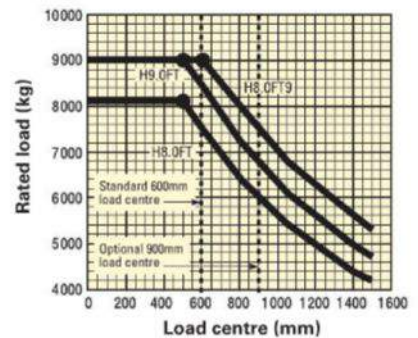
STANDARD HOOK CARRIAGE



INTEGRAL SIDESHIFT HOOK CARRIAGE



INTEGRAL SIDESHIFT FORK POSITIONER HOOK CARRIAGE



Load centre: Distance from front of forks to centre of gravity of load.

Rated load: Based on vertical 2-stage masts up to 5065 to 5565 mm, depending on model. Special forks with higher load ratings may be needed to obtain full rating with load centres > 1100 mm

PRODUCT PACKAGES

The Hyster Fortens™ range has been designed to match the vast range of application requirements and business objectives that customers demand.

The H8.0-9.0FT Series is available in several truck packages, with multiple powertrain combinations to choose from, to best match operational demands. Each configuration offers improved efficiency, advanced dependability, lower cost of operations and simple serviceability.

Model / Bundle	H8.0FT6			H8.0FT9			H9.0FT6		
DIESEL	Engine	Transmission	Brakes	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens Advance	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™3, 3-speed	Wet Brakes
Fortens Advance	Kubota 3.8L, 82kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™3, 3-speed	Wet Brakes
Fortens Advance+	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 55kW	DuraMatch™ Plus3, 3-speed	Wet Brakes
Fortens Advance+	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes	Kubota 3.8L, 82kW	DuraMatch™ Plus3, 3-speed	Wet Brakes

Model / Bundle	H8.0FT			H8.0FT9			H9.0FT		
LPG	Engine	Transmission	Brakes	Engine	Transmission	Brakes	Engine	Transmission	Brakes
Fortens Advance	GM 5.7L V8	DuraMatch™3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™3, 3-speed	Wet Brakes
Fortens Advance+	GM 5.7L V8	DuraMatch™ Plus3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™ Plus3, 3-speed	Wet Brakes	GM 5.7L V8	DuraMatch™ Plus3, 3-speed	Wet Brakes

Please refer to the Price List for full option configurations.

PRODUCT FEATURES

The Hyster Fortens H8.0-9.0FT Series represents a powerful, compact materials handling solution for a wide range of demanding applications.

These trucks are ideally suited to match the a variety of application needs, including those with attachment usage in the paper, manufacturing, recycling, beverage, metals or construction industries or where space is tight.

It's compact design ensures that space and on-site efficiency can be maximised to maintain low operating costs.

Fortens Advance & Advance+ models feature the electronically controlled Kubota V3800 E4 55kW or 82kW diesel engines or GM 5.7L V8 LPG engine.

LOW EMISSION ENGINES FROM KUBOTA

The Kubota V3800 E4 55kW diesel engine is fully compliant with Stage IIIB requirements for regulated markets and is equipped with a DOC as standard.

These engines meet the stringent emissions regulations by using a number of technologies including cooled exhaust gas recirculation, charge air cooling and a Diesel Oxidising Catalyst.

The Kubota V3800 E4 82kW Stage IV compliant diesel engine use familiar technologies like Exhaust Gas Recirculation (EGR) in combination with a Diesel Particulate Filter (DPF). For these engines we are currently using Selective Catalytic Reduction (SCR) technology to significantly reduce Nitrogen Oxide (NOx) emission levels. Using these technologies together achieves full emission compliance to Stage IV.

Hyster Stage IIIB and Stage IV trucks stand for profitable low emissions through intelligent design. They are recognisable by the Stage IIIB or Stage IV symbol.



THE CHOICE OF TRANSMISSIONS

The Fortens Advance models feature the **DuraMatch™ 3 transmission**, providing:

- **Auto Deceleration System (ADS)** automatically slows the truck when the accelerator pedal is released, and finally brings the truck to a stop, which helps to significantly extend brake life. In addition, this feature assists the driver to accurately position the truck in front of a load. There are 10 ADS settings, programmable via the dash display by a service technician, which deliver different braking characteristics, from very gradual to aggressive, to suit the needs of the application.
- **Controlled Power Reversal;** the Pacesetter VSM™ controls the transmission to deliver smooth direction changes. The VSM reduces the throttle to slow the engine, initiates auto-deceleration to stop the truck, changes the transmission direction automatically and increases the throttle to accelerate the truck. The system virtually eliminates tyre spin and shock loads on the transmission and significantly increases tyre life. As with ADS, the system is programmable via the dash display by a service technician, with settings from 1 to 10, to suit the needs of the application.
- **Controlled Roll-Back on Ramp;** the transmission controls the rate of descent of the truck on a ramp, when the brake and throttle pedal are released, to provide maximum control on a grade and increase operator productivity.
- **First Gear** offers **Increased Drawbar Pull** for use on gradients.
- **Second & Third Gears** provide maximum engine efficiency in applications where longer travel distances are common

PRODUCT FEATURES continued

The Fortens Advance+ models feature the electronically controlled three-speed extended function **DuraMatch™ Plus3 transmission**. This transmission, in addition to the above, features:

- **Throttle Response Management** allows the operator to manage his travel speed, according to the position of his foot on the accelerator pedal. For example, a certain speed can be maintained both on the flat and on a gradient, without the need to depress the pedal further. The system also compensates for hydraulic operation and drawbar pull.
- **Dynamic Auto Deceleration System;** as with the **DuraMatch™ 3**, the operator can slow the truck down without using the brake and the rate of braking is determined by the dashboard settings 1-10. In addition, thanks to the Throttle Response Management feature, the rate of deceleration can be further fine-tuned according to the rate at which the driver releases his foot from the accelerator pedal.
- **Auto-Speed Hydraulics with Automatic Inching Control;** when lifting a load, the engine speed is automatically increased to provide full hydraulic power. The Pacesetter VSM™ maintains the current travel speed (or prevents travel) until operator steps on accelerator. No operator inching is required and productivity is increased by simplifying operator actions.

The transmissions are compatible with the combi-cooler radiator and a superior counterweight tunnel design coupled with a "pusher" type fan, to provide the industry's best cooling.

The standard Oil-immersed brakes offer reduced maintenance & repair time and costs, which results in extended truck dependability and uptime. These trucks are ideally suited to applications in wet, dirty or corrosive environments, and ensure consistent braking performance over the lifetime of the truck. This is thanks to the sealed unit that houses and protects the brakes, so preventing contaminants and damage.

The powertrain is controlled, protected and managed by the **Pacesetter VSM™** industrial onboard computer, featuring a CANbus communications network.

This system permits adjustment and optimisation of the truck's performance, in addition to monitoring key functions. It enables quick, easy diagnostics, minimizing repair downtime and unnecessary parts swapping.

Hassle-Free Hydraulic systems, featuring Leak-free O-ring face seal fittings reduce leaks for enhanced reliability.

Non-mechanical, Hall-Effect sensors and switches have been fitted and are designed to outlast the life of the truck.

The operator compartment features class-leading **ergonomics** for maximum driver comfort and productivity.

- Operator space is optimised, thanks to the modern overhead guard design and significantly more floor space.
- The Easy-to-use 3-point entry design of operator compartment features conveniently positioned hand-grips and three non-slip steps, with an initial step height of just **32.1cm**. The isolated operator compartment minimises the effect of powertrain vibration.
- The adjustable armrest that accompanies the E-hydraulic TouchPoint™ mini-levers moves with the seat and telescopes forward.
- The Rear grab handle with horn button facilitates reverse driving.
- An infinitely adjustable steering column, 30 cm diameter steering wheel with spinner knob and full-suspension seat enhance driver comfort.

THE HYSTER FORTENS IS THE FASTEST AND EASIEST LIFT TRUCK TO SERVICE.

- An active regenerating Diesel particulate filter significantly reduces the number of services interventions. DPF performance is constantly monitored and displayed on supplemental display at operator eye level.
- Simple service access to both sides of the engine compartment is via a gull-wing hood and a simplified layout of wiring and hydraulics offers greater access to components, which in turn decreases service time for unscheduled repairs and regular maintenance.
- Fast, colour-coded daily checks and diagnostic systems can be managed via the dash display.
- An Engine coolant change and Hydraulic oil change interval of 4 000 hours also contributes to reduced downtime.

STRONG PARTNERS. TOUGH TRUCKS.™

FOR DEMANDING OPERATIONS, EVERYWHERE.

Hyster supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and reach stackers. Hyster is committed to being much more than a lift truck supplier.

Our aim is to offer a complete partnership capable of responding to the full spectrum of material handling issues: Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster.

Our network of highly trained dealers provides expert, responsive local support. They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your material handling needs so you can focus on the success of your business today and in the future.



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